

Listing of the Claims

The following listing of claims replaces all previous listings and versions thereof:

- 1-38. (cancelled)
39. (previously presented) A process for making a coated optical article free of visible fining lines by application of a single monolayer coating, wherein the process comprises:
 - (i) providing an optical article having at least one fined but unpolished geometrically defined main face having a root mean square profile R_q higher than or equal to 0.01 μm ;
 - (ii) providing a mold part having an internal and external surface;
 - (iii) depositing on said main face of said optical article or on the internal surface of the mold part a requisite amount of a liquid curable coating composition;
 - (iv) moving relatively to each other the optical article and the mold part to either bring the coating composition into contact with the main face of the optical article or into contact with the internal surface of the mold part;
 - (v) applying pressure to the mold part to spread the liquid curable coating composition on said main face and form a uniform liquid coating composition layer onto the main face;
 - (vi) curing the liquid coating composition layer;
 - (vii) withdrawing the mold part; and
 - (viii) recovering an optical article free of visible fining lines and having said at least one fined but unpolished geometrically defined main face coated with a single monolayer coating.
40. (previously presented) The process of claim 39, wherein the liquid coating composition layer is cured under pressure.
41. (previously presented) The process of claim 39, wherein said mold part is rigid and its internal face inversely replicates said main face of said optical article.

42. (previously presented) The process of claim 39, wherein said mold part is flexible and the geometry of its internal face inversely replicates said main face of said optical article under the pressure applied in step (v).
43. (previously presented) The process of claim 42, wherein the flexible part has a higher base curvature than the base curvature of the fined and unpolished optical article to be coated.
44. (previously presented) The process of claim 42, wherein the flexible mold part is an inflatable flexible membrane.
45. (previously presented) The process of claim 42, wherein the flexible mold part has a thickness of 2 mm or less.
46. (previously presented) The process of claim 42, wherein the flexible mold part is made of flexible plastic material.
47. (previously presented) The process of claim 46, wherein the flexible plastic material comprises polycarbonate or poly(methylmethacrylate).
48. (previously presented) The process of claim 39, wherein the curable liquid coating composition is a UV curable composition.
49. (previously presented) The process of claim 39, wherein the mold part is a transparent wafer.
50. (previously presented) The process of claim 49, wherein the mold part is a UV transparent wafer.
51. (previously presented) The process of claim 39, wherein the pressure exerted onto the mold part ranges from 10 kPa to 350 kPa.
52. (previously presented) The process of claim 39, wherein the pressure exerted onto the mold part ranges from 30 to 150 kPa.

53. (previously presented) The process of claim 39, wherein R_q of the fined but unpolished geometrically defined main face ranges from 0.01 to 1.5 μm .
54. (previously presented) The process of claim 39, wherein R_q of the fined but unpolished geometrically defined main face ranges from 0.1 to 1.0 μm .
55. (previously presented) The process of claim 39, wherein the optical article is made of polycarbonate.
56. (previously presented) The process of claim 39, wherein said main face of the optical article has a R_q of about 0.5 μm .
57. (previously presented) The process of claim 39, wherein the optical article is made of diethylene glycol bis-allylcarbonate, polycarbonate, polythiourethane or episulfide material.
58. (previously presented) The process of claim 57, wherein said main face of the optical article has a surface roughness S_q of about 1.0 μm .
59. (previously presented) The process of claim 39, wherein the cured coating has a thickness of 1 to 50 μm .
60. (previously presented) The process of claim 39, wherein the cured coating has a thickness of 1 to 25 μm .
61. (previously presented) The process of claim 39, wherein the cured coating has a thickness of 1 to 10 μm .
62. (previously presented) The process of claim 39, wherein the cured coating has a thickness of less than 5 μm .
63. (previously presented) The process of claim 39, wherein the refractive index difference between the optical article and the cured coating is up to 0.1.

64. (previously presented) The process of claim 39, wherein the coating composition is an anti-abrasive hard coating composition.
65. (previously presented) The process of claim 39, wherein the said main face of the optical article is the back face of the optical article.
66. (previously presented) The process of claim 39, wherein the optical article is a tinted lens blank.
67. (previously presented) The process of claim 39, further comprising applying an anti-reflective coating directly onto the cured coating.
68. (previously presented) The process of claim 39, wherein said optical article is a lens or lens blank.
69. (previously presented) The process of claim 68, wherein said optical article is a tinted lens or lens blank.
70. (previously presented) The process of claim 68, wherein said main face of the lens or lens blank is the back face of the lens or lens blank.
71. (previously presented) The process of claim 39, wherein said optical article is a transparent lens mold.
72. (previously presented) The process of claim 71, wherein said lens mold is a glass mold.
73. (previously presented) The process of claim 72, further comprising applying an anti-reflective coating directly onto the cured coating.
74. (previously presented) The process of claim 39, wherein the mold part is precoated by a release coating and/or protective coating.
75. (previously presented) The process of claim 39, wherein the mold part has a microstructure or a pattern to be duplicated in the lens blank coating.

76. (previously presented) A process for making a coated article whose main surface has a surface state corresponding to a polished state by application of a single monolayer coating, wherein the process comprises:
 - (i) providing an article having at least one fined but unpolished geometrically defined main face having a root mean square profile R_q higher than or equal to 0.01 μm ;
 - (ii) providing a mold part having an internal and external surface;
 - (iii) depositing on said main face of said article or on the internal surface of the mold part a requisite amount of a liquid curable coating composition;
 - (iv) moving relatively to each other the article and the mold part to either bring the coating composition into contact with the main face of the article or into contact with the internal surface of the mold part;
 - (v) applying pressure to the mold part to spread the liquid curable coating composition on said main face and form a uniform liquid coating composition layer onto the main face of the article;
 - (vi) curing the liquid composition layer;
 - (vii) withdrawing the mold part; and
 - (viii) recovering a coated article having a surface state corresponding to a polished state and having a single monolayer coating.
77. (previously presented) The process of claim 76, wherein the surface of the coated article has a R_q under 0.01 μm .
78. (previously presented) The process of claim 77, wherein the coated article is a lens mold.
79. (previously presented) The process of claim 78, wherein the lens mold is not transparent.
80. (previously presented) The process of claim 76, wherein the mold part is precoated by a release coating and/or protective coating.

81. (previously presented) The process of claim 76, wherein the mold part has a microstructure or a pattern to be duplicated in the lens blank coating.